

Title (en)

LASER CALIBRATION APPARATUS AND METHOD

Title (de)

LASERKALIBRIERUNGSVORRICHTUNG UND -VERFAHREN

Title (fr)

PROCEDE ET APPAREIL D'ETALONNAGE DU LASER

Publication

EP 1173302 B1 20050420 (EN)

Application

EP 00922377 A 20000426

Priority

- CA 0000472 W 20000426
- US 13113899 P 19990427

Abstract (en)

[origin: WO0064622A1] A method (140) and system (10) of determining scanner coordinates to accurately position a focused laser beam (32a, 32b). The focused laser beam is (32a, 32b) scanned over a region of interest (e.g. an aperture (34)) on a work-surface (36) by a laser scanner (22, 24). The position of the focused laser beam (32a, 32b) is detected by a photodetector either at predetermined intervals of time or space or as the focused laser beam (32a, 32b) appears through an aperture (34) in the work surface (36). The detected position of the focused laser beam (32a, 32b) is used to generate scanner position versus beam position data based on the position of the laser scanner (22, 24) at the time the focused laser beam (32a, 32b) is detected. The scanner position versus beam position data can be used to determine the center of the aperture or the scanner position coordinates that correspond with a desired position of the focused laser beam (32a, 32b).

IPC 1-7

B23K 26/04

IPC 8 full level

B23K 26/00 (2014.01); **B23K 26/042** (2014.01); **B23K 26/082** (2014.01)

CPC (source: EP KR US)

B23K 26/04 (2013.01 - EP KR US); **B23K 26/042** (2015.10 - KR); **B23K 26/043** (2013.01 - EP US); **B23K 26/082** (2015.10 - EP US); **B23K 26/0853** (2013.01 - EP US); **B23K 26/705** (2015.10 - EP US)

Cited by

EP4025426A4; WO2021046076A1; US8693008B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 0064622 A1 20001102; AU 4280700 A 20001110; CA 2370813 A1 20001102; CA 2370813 C 20080617; DE 60019573 D1 20050525; DE 60019573 T2 20060323; EP 1173302 A1 20020123; EP 1173302 B1 20050420; JP 2002542042 A 20021210; KR 100600921 B1 20060713; KR 20010112950 A 20011222; US 6501061 B1 20021231

DOCDB simple family (application)

CA 0000472 W 20000426; AU 4280700 A 20000426; CA 2370813 A 20000426; DE 60019573 T 20000426; EP 00922377 A 20000426; JP 2000613603 A 20000426; KR 20017013732 A 20011026; US 55836700 A 20000426